

ANT/OFF/02

LOFFFE.

ENDERBY

0032

LAND - II

(ANTARCTICA)

BMR

75/76

INDEX

[illegible]

Contents

McLeod Ntks ✓

Sandercock Ntks ✓

Oblachnaya Ntk

McLeod Ntks/13/409 (colony 1974)

McLeod Ntks 27/1/76

1. Near peak *SPEC 90 - gnt string
of gnt p. + plag. rock

2. Dark green p. + f. rock
of mafic rock
* SPEC 91

M/2037
also GB/1035



The mafic rock consists
primarily of px (+ biot + feld)

* SPEC 92

3. Intruded by leucocratic
rock. The mafic rock has
been partly broken up and
the leucocratic rock
has "flowed" around these
fractures.

The leuc rock consists
of q & f and a pinkish
purple mineral - thought
it was glaucite but
too hard - may be
garnet * SPEC 93

4. Part of mafic rock consists
of opaque. px - plag.
* SPEC 94

5. Also biot - q - plag - px rock
containing pinkish mineral
* SPEC 95

M/2037

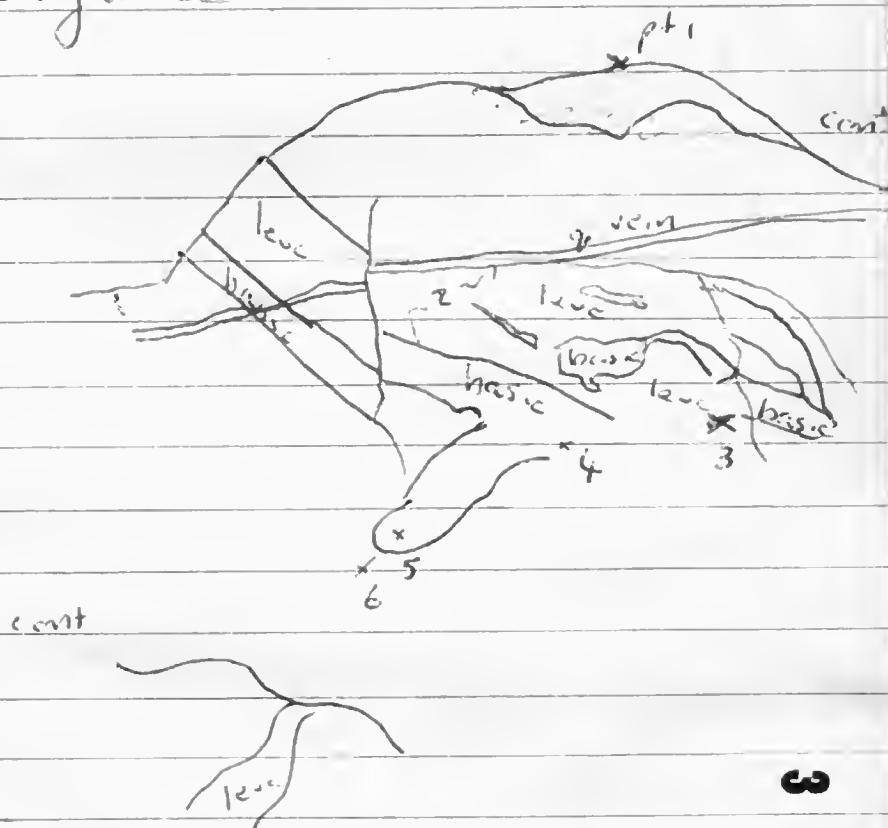
als: 6B/1038 ✓



6. This is the end of a mafic
layer several m thick
Lenses cut in a f. grained
p.s. feld rock

* SPEC 96 A

* SPEC 96 B collected within
4.0 cm of mafic lens
contains garnet but this
may only be on a fracture
surface



M/2037
also GB/1039



M/2037

also GB/1033

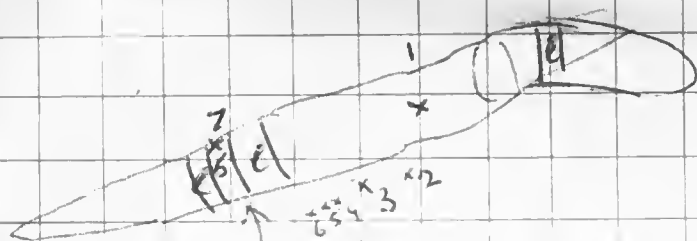
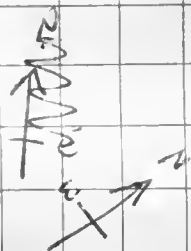


Ridge trends WSW

Joining

S. 297-54

D: Vert ^{24.3}



* SPEC 97A - Px

* B - Px (q) - opaque (mag)

- 7 SPEC 97A - Px rock
97B - Px rock containing
q - magnetite

8. Near platform (loc.) — calcite
veining *98.

*SPEC 99 { calcite
gray
= rock

Also at this pt measurement
of fol. $\text{Plg Lr} \rightarrow 160 - 54$
and lineation $= 106$
Fol. ~ horiz

Fol. defined by lenses of
quartz and minor lining up of
px. Fol. varies slightly
but close to horiz. Lin.
defined by quartz elong.
— also a fracture system
(dip vert) // to this lineation.
If the granite? seen
yesterday can be interpolated
then may be a synform

here with this platform area
near the hinge zone and
showing a line due to
axial plane schistosity.
However evidence being

Overall story (just guess!)
- mafic rock - with
lenses rich in px included
parallel ^{to layering} and along fractures
by acid rock. Together
have been tugged up.

* SPEC 301 - same as 199

- grey-brown layer 2 cm
wide (soft) consisting
Wellastonite { of black mineral
(x RD) separates country rock
(px - feld) from calcite

* SPEC 302 - also from
same locality - core of
green px against
grey-brown layer

M/2037



M/2037
also GB/1036



White powder in this area
may be secondary carbonate.
In some areas fractures
coated with yellow ppt. May be
limonite from break down of
magnetite in the same rocks.

Jointing

Near platform

S: 256-54

- jointing - can

D. 816

be seen to extend across
to ridge to Nth

N

W F

Δ Pythony

Peak.
platform

Sandwich Ntk 30/1/76

Sand. N/TIER B/324. (Colour 76)

1. E. side - massive fol
blocks of gnt. but - of green
surrounded by rubble - fol
appears almost horizontal
some crosscutting gnt. of
greenish green
Green. med. gnt. - of
elongate gnt. trails &
but // to fol.

* SPEC 303

To west - porphyroblast
- oval () of fol to 15 mm
gnt. of green
On the blacky outcrop
- banded fol. red of fol.
nearly horizontal - many
are I think, whereas few
are vertical? This outcrop
trails from even gnt.
green to porphyroblast
green "Xanthite?" of
gnt. schistose gnt. but
- of rock ~ 15 cm length

litroder blocky outcrops

* JFEC 304

- q & f elongate to ~ 15m
- qnt 2 biotite fms
- epid.

2. On northern face - granite dykes (10m across) -

- q-f-tourmaline - some
- qnt cones near margin.
- fol. of green // the dykes.

Small xenoliths (~ 7cm long)
of fignol b & f of green
- qnt in country rock
green

Darker (more biot) green
in contact with lighter green
- contact // to fol.

Fol. of biot (partly displaced)
a horizontal. Ln 10 → 192-54 = 138
(biot & feld elongate) ∞

Rock, qnt-biot-q-f.
- Feld to 25 mm

- 3 To west of TMR site - possibly
a more in place $\ln \sim 0 \rightarrow 150-54$
platform (biot) = 096
Feld - heavy.

In series -

The granite veins consist
of qnt-biot-q-f and
tonalite-q-f

In some localities layers
of q-f in the gran. Also
the more biot (deeper) rock
gran. has elongate feld
- coarse grain size.

4. To southeast side of
outcrop - augen granite
- feld to 4.5 mm length
oval shaped. Matrix
of qnt biot-qnt & quartz.
Appears to grade into

more evengrained grains

*SPEC 305.

McCleod MTK/4/961/BEW 1976
Oblachynaya NTK 4/2/76

1. Zone of
 Shaded
 rock
 (mainly
 gr)

Mye
 $200 - 53 = 147$

2350

Mye 20 → 211 - 53
 = 318

- about

Mye

1 m with
 exposed *SPEC 306

S: 188 - 53 = 135
 ID vent

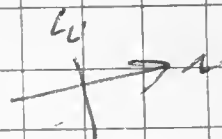
On other
 side of ridge

Fels

S 295 - 53 = 242
 ID 51 m

~ 30m zone
 of mylonite

*SPEC 307



- photo

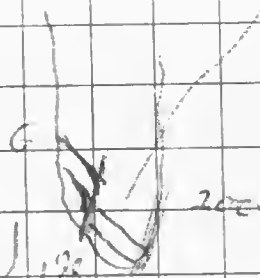
shows

2.4 m

(not corrected) 188

displacement
 of granite large

Between shows granite &
 granite folm dipping to NW.

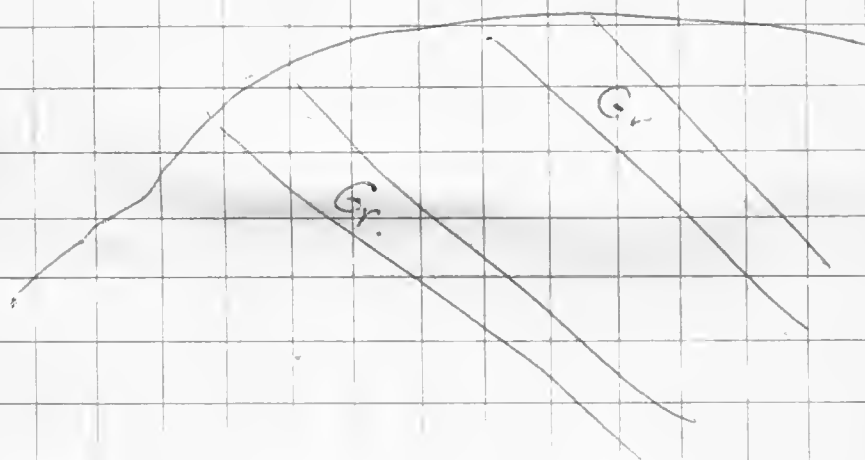


M/2037



Mountain Mass

(looking from tail)



* seen 308 - wife pod (2m
length) of biot-f - ?

- country rock appears to be
granite

~~'granite'~~

~~pod~~

* SPEC 309 - from granite
layer - g.f. - pink mineral
(as seen at 14c (lead Nth))

- granite layer 2m wide
+ quartz veins & "canalites"
of pink mineral material.

The country rock appears
to be of similar mineralogy
to these discrete granite
layers - however have sequences
of minerals & biotite + "pyrox" ?
present.

2 Near contact of dike with
main mass

* SPEC 310

Fol.

mgnd g.f. - minor pink
min + biot?

S 142-53

D 32.0-089

On other side
of main mass
- smaller zone
of shearing

Shearing

S 193-53

D vert = 14c

1 displacement about same

us before ^{however} ~~then~~ ntk side changing
to west relative to southern side
(not same as before)

Towards top of ntk -

* SPEC 311 Frac S: 218-53
Mafic-pink-plag _{min} \rightarrow Vent to Steep \rightarrow NE ≈ 165

Two fracture planes - no
apparent displacements
Fol.

3. Fol = cut top of ntk. S: 194-53
 ≈ 141
D 25 NE

- pink mineral is garnet
- probably goes for pink
mineral seen at McCleod
as well. Although it
is rounded in form at
McCleod (as well as
here) there is garnet
of a red colour. Why
this difference in
colour? - origin?

7/2/76

Fide

Western

S 207 - 93-154

Slope - almost

D 30NE

dip surface

By L: 25 → 120 - 53
(min & long) = 067

L₁ appears to represent interface of lithology (unconformity) layering & fracture - irregular (displacement) (Fracture slip dipping)

4. * SPEC 312 - 1/2 way up this side - red granite but quartz specks

Further up

* SPEC 313 - wood core - quartz - pink

at top of rock

* SPEC 314 - red granite - generally conformable to the rock in places cuts out.

Ven throughout
coarser in grain

Top of hill 1 -

* SPEC 315

(bloody in -

Top of hill

* SPEC 316 - as 311

- q. f. pink min (grt?) &
myer biot & green amph?

- because of dip of
layers & intrusive granite
a bit difficult to trace,
this distinctive weathering
rock. Thought it may be
a contact effect of the
granite but don't know.

Check thin sections for px
- fairly sure I saw some
large cryst of hyp?

*SREC 317

E p



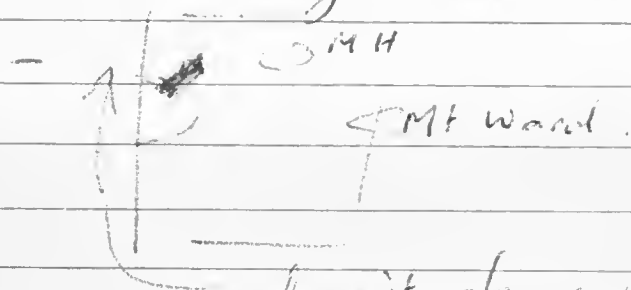
GB/1050



Deposited (Fossil)

cont - Stand 2 kts behind
Mansion in background
- this is area of Taylor
Rockery & Lake.

- Just past golf link (1)
where sea reaches shore.
- 2 photos - one of
coastal fs, 2nd covers
Ranges behind Mansion



doesn't show Mansion

Na 12

Ob. → Mt King

- to NW

- McCleod

- Krouley

- "

- McC.

"

"

"

"

- Mt King

- stream by rd ridge - photo
to east.

- G II ? gulf - rippon on LHS

- Rippon - P G II ? plateau

- to east side - over crest.

- Rippon

- 3 d. at Rip

- folding at R

- after fold interval - sheet of rock + lot
of ix where we reached main

